

## CLAIMS

What is claimed is:

1. A hermetic compressor, comprising:

5 a hermetic casing;  
a frame provided in the hermetic casing;  
a drive unit provided in a lower portion of the frame;  
a compression unit provided on an upper portion of the  
frame;

10 a rotating shaft vertically installed in the frame to  
transmit a rotating force of the drive unit to the  
compression unit, with an eccentric part provided on an  
upper end of the rotating shaft and coupled to the  
compression unit; and

15 an oil feed unit provided on the rotating shaft to  
feed oil from a bottom of the hermetic casing to a  
plurality of drive parts, the oil feed unit comprising:

a first oil pickup unit provided on a lower end  
of the rotating shaft to lift the oil upward from the  
20 bottom of the hermetic casing;

a first oil feed path provided in the rotating  
shaft above the first oil pickup unit while being  
eccentric from a central axis of the rotating shaft;

25 a spiral oil feed groove provided around an outer  
surface of the rotating shaft above the first oil feed  
path and communicating with the first oil feed path;

a second oil feed path provided in the eccentric  
part of the rotating shaft and communicating with  
the spiral oil feed groove; and

30 a second oil pickup unit provided in the first  
oil feed path to increase an oil lift force.

2. The hermetic compressor according to claim 1,

wherein the first oil feed path is inclinedly provided in the rotating shaft so that a central axis of the first oil feed path is diverged from the central axis of the rotating shaft in a direction from the lower end to the upper end of the rotating shaft.

3. The hermetic compressor according to claim 1, wherein the second oil feed path is inclinedly provided in the eccentric part of the rotating shaft so that a central axis of the second oil feed path is diverged from the central axis of the rotating shaft in a direction from a lower end to an upper end of the eccentric part.

4. The hermetic compressor according to claim 1, further comprising:

a bearing provided between the upper portion of the frame and a lower end of the eccentric part of the rotating shaft, wherein the second oil feed path extends from the eccentric part of the rotating shaft to a predetermined position of an interior of the rotating shaft under the bearing and communicates with the spiral oil feed groove via a communication hole which is provided on the rotating shaft in a radial direction.

5. The hermetic compressor according to claim 4, wherein the bearing comprises a thrust bearing to support an axial load.

6. The hermetic compressor according to claim 4, further comprising:

an oil guide part provided on the outer surface of the rotating shaft so that the oil guide part extends from an upper end of the spiral oil feed groove to a position of

the bearing, thus feeding the oil to the bearing.

7. The hermetic compressor according to claim 6,  
wherein the oil guide part comprises a flat surface which  
5 is provided on the outer surface of the rotating shaft in  
an axial direction.

8. The hermetic compressor according to claim 1,  
wherein the first oil pickup unit comprises:  
10 an oil guide body having a cylindrical shape and  
provided with an oil inlet at a lower end of the oil guide  
body, the oil inlet of the oil guide body having an inner  
diameter which is smaller than an outer diameter of the oil  
guide body; and  
15 a spiral blade provided in the oil guide body.

9. The hermetic compressor according to claim 1,  
wherein the second oil pickup unit comprises a spiral blade  
provided in the first oil feed path.  
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10. The hermetic compressor according to claim 1,  
further comprising:  
an auxiliary oil feed path provided in the eccentric  
part of the rotating shaft in a radial direction to  
25 communicate with the second oil feed path.

11. A hermetic compressor, comprising:  
a hermetic casing;  
a frame provided in the hermetic casing;  
30 a drive unit provided in a lower portion of the frame;  
a compression unit provided on an upper portion of the  
frame;  
a rotating shaft vertically installed in the frame to

transmit a rotating force of the drive unit to the compression unit, with an eccentric part provided on an upper end of the rotating shaft and coupled to the compression unit; and

5 an oil feed unit provided on the rotating shaft to feed oil from a bottom of the hermetic casing to a plurality of drive parts, the oil feed unit comprising:

a first oil pickup unit provided on a lower end of the rotating shaft to lift the oil upward from the  
10 bottom of the hermetic casing;

a first oil feed path provided in the rotating shaft above the first oil pickup unit while being eccentric from a central axis of the rotating shaft;

a spiral oil feed groove provided around an outer  
15 surface of the rotating shaft above the first oil feed path and communicating with the first oil feed path; and

a second oil feed path provided in the eccentric part of the rotating shaft and communicating with the spiral oil  
20 feed groove, the second oil feed path being inclined in the eccentric part so that a central axis of the second oil feed path is diverged from the central axis of the rotating shaft in a direction from a lower end to an upper end of the eccentric part.

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12. The hermetic compressor according to claim 11, further comprising:

a thrust bearing provided between the upper portion of the frame and the lower end of the eccentric part of the  
30 rotating shaft, wherein the second oil feed path extends from the eccentric part of the rotating shaft to a predetermined position of an interior of the rotating shaft under the thrust bearing and communicates with the spiral

oil feed groove via a communication hole which is provided on the rotating shaft in a radial direction.

13. The hermetic compressor according to claim 12,  
5 further comprising:

an oil guide part provided on the outer surface of the rotating shaft so that the oil guide part extends from an upper end of the spiral oil feed groove to a position of the thrust bearing, thus feeding the oil to the thrust  
10 bearing, the oil guide part having a flat surface which is provided on the outer surface of the rotating shaft in an axial direction.